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2033 GATEWAY PLACE			IQBAL, KHAWAR	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/733,927	JEONG ET AL.	
Office Action Summary	Examiner	Art Unit	
	KHAWAR IQBAL	2617	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	vith the correspondence add	lress
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this cor BANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 3 This action is FINAL . 2b) ☑ To a since this application is in condition for allow closed in accordance with the practice under the since th	his action is non-final. wance except for formal mat	·	merits is
Disposition of Claims			
4) ☐ Claim(s) 1-39 is/are pending in the application 4a) Of the above claim(s) 27-39 is/are withdress 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and application Papers 9) ☐ The specification is objected to by the Examination The drawing(s) filed an is/are; ov ☐ a	rawn from consideration. d/or election requirement. iner.	by the Eversines	
10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrupt The oath or declaration is objected to by the	he drawing(s) be held in abeya ection is required if the drawing	ince. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFF	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a least to the priority document of t	ents have been received. ents have been received in a riority documents have been eau (PCT Rule 17.2(a)).	Application No n received in this National S	Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Regarding claims 1-2, 6-7, 12-13 and 18, the phrase "possibility" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention.

Regarding claim 8 the phrase "could be" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention.

Regarding claim 22, the phrase "adapted" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-9, 11-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee et al (20040039817).

Regarding claim 1, Lee et al teaches a method of enabling channel scanning in a wireless station (wireless station, fig. 8), said method comprising (fig. 8):

receiving from an access point (access point, fig. 8) data provided to indicate a possibility of regulatory domain change (para. # 0030, 0038); and

after a connection with the access point is terminated selecting a channel scanning method based upon said data (para. # 0066).

Regarding claim 2 Lee teaches wherein said data indicates whether there is a possibility of domain change (para. # 0030, 0038).

Regarding claim 3 Lee teaches wherein said data is based on geographic information of the access point (para. # 0037-0038 and 0061).

Regarding claim 4 Lee teaches wherein said data is based on proximity information of the access point related to a predetermined point (para. # 0047-0048, 0064-0066).

Regarding claim 5 Lee teaches wherein said data is based on maximum coverage area and geographical information of the access point (para. # 0032, 0047-0048, 0051-0054, 0064-0066).

Regarding claim 6 Lee teaches wherein said selecting a channel scanning method comprises selecting a safe channel scanning method if there is a possibility of regulatory domain change (para. # 0048, 0072-0075).

Regarding claim 7 Lee teaches wherein said selecting a channel scanning method comprises selecting an active channel scanning method if there is no possibility of regulatory domain change (para. # 0032, 0035-0037).

Regarding claim 8 Lee teaches a method of enabling channel scanning in a wireless station (wireless station, fig. 8), said method comprising:

establishing communication between said wireless station (wireless station, fig. 8) and an access point (access point, fig. 8) (para. # 0023);

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receiving information in a lifetime field provide to a period of time during which regulatory domain information could be used after the communication between said wireless station and said access point has been lost (para. # 0038 and 0066); and determining whether an elapsed period of time after the communication between said wireless station and said access point has been lost is greater than the period of time in said lifetime field (para. # 0066, 0038-0040).

Regarding claim 9 Lee teaches wherein said receiving information comprises obtaining the shortest distance from a regulatory domain boundary to an edge of the coverage area of the access point (para. # 0046).

Regarding claim 11 Lee teaches further comprising selecting a safe channel scanning method if the elapsed period of time is greater than the period of time in said lifetime field (para. # 0030, 0051, 0064-0067).

Regarding claim 12 Lee teaches further comprising determining whether there is a possibility of regulatory domain change (para. # 0030, 0038).

Regarding claim 13 Lee teaches further comprising performing safe channel scanning if there is a possibility of regulatory domain change (para. # 0030-0038).

Regarding claim 14 Lee teaches a method of enabling channel scanning in a wireless station, said method comprising (figs. 8):

determining if a channel of a plurality of available channels is a domain-independent channel (para. # 0028-0030); and

actively scanning the domain-independent channel (para. # 0028-0030).

Regarding claim 15 Lee teaches further comprising receiving a pre-alert field (para. # 0030, 0051, 0064-0067).

Regarding claim 16 Comp teaches further comprising performing an active channel scan if valid regulatory domain information is identified during scan of the domain-independent channel (para. # 0028-0030).

Regarding claim 17 Lee teaches a wireless station adapted to scan for channels in a wireless communication network, said wireless station comprising (fig. 8):

a receiver for receiving a data block, wherein said data block comprises a regulatory domain change pre-alert field (para. # 0037-0040, 0064-0067 and 0071-0073);

a controller coupled to said receiver, said controller selecting a channel scanning method based upon data in said domain change pre-alert field (para. # 0037-0040, 0064-0067 and 0071-0073); and

a transmitter coupled to said controller (para. # 0037, fig. 8, mobile, wireless terminal or PDA) (a processor for selecting an AP based on the signal strength and channel loading information).

Regarding claim 18 Lee teaches wherein said domain change pre-alert field comprises a bit indicating whether there is a possibility of regulatory domain change (para. # 0037-0040).

Regarding claim 19 Lee teaches wherein the transmitter transmits a probe frame if said regulatory domain change pre-alert field is not set (para. # 0037-0040).

Regarding claim 20 Lee teaches wherein said domain change pre-alert field is sent in a beacon frame (para. # 0037-0040).

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Regarding claim 21 Lee teaches wherein said domain change pre-alert field is sent in a probe response frame (para. # 0037-0040).

Regarding claim 22 Lee teaches a wireless station adapted to scan for channels in a wireless communication network, said wireless station comprising (fig. 8):

a receiver for receiving a data block, wherein said data block comprises a lifetime field related to the extent of a regulatory domain (para. # 0050-0054, 0062-0067);

a controller coupled to said receiver, said controller selecting a channel scanning method based upon data in said lifetime field; and a transmitter coupled to said controller (para. # 0050-0054, 0062-0067, 0071-0074 para. # 0037, fig. 8, mobile, wireless terminal or PDA, a processor (controller) for selecting an AP based on the signal strength and channel loading information).

Regarding claim 23 Lee teaches wherein the controller selects a safe channel scan method if said lifetime field has expired (para. # 0050-0054, 0062-0067).

Regarding claim 24 Lee teaches wherein said lifetime field is based upon a maximum handover time (para. # 0037, 0050-0054, 0062-0067).

Regarding claim 25 Lee teaches wherein said lifetime field is based on a shortest distance from a regulatory domain boundary to an edge of the coverage area of an access point (para. # 0050-0054, 0062-0067, 0071-0074).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 10 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et

al (20040039817) and further in view of Toshimitsu et al (7006456).

Regarding claim 10 and 26 Lee does not specifically teach obtaining speed of said

wireless station.

In an analogous art, Toshimitsu et al teaches teach obtaining speed of said wireless station

(col. 25, lines 1-15).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify the device of Lee teaches by specifically adding features

obtaining speed of said wireless station, radio mobile station simplifies a control of hand-over

process and improves communication efficiency and attains high reliable radio communication

system taught by Toshimitsu et al.

Response to Arguments

Applicant's arguments with respect to claims 1-26 have been considered but are moot in

view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to KHAWAR IQBAL whose telephone number is (571)272-7909.

The examiner can normally be reached on 9 am to 6.30 pm Monday to Thur.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, GEORGE ENG can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/ Supervisory Patent Examiner, Art Unit 2617

/K. I./ Examiner, Art Unit 2617